DaimlerChrysler AG

Patent claims

1. A safety device for a vehicle (2), in particular for a motor vehicle, for reducing the risk of injury to a vehicle occupant in the event of lateral accidents collisions, having at least one cushion element (32, 34) which is arranged on the vehicle (2) laterally adjacent to an occupant position and can be moved by an actuating device (40) from a rest position into a deployed position in the direction of the occupant position,
characterized
in that the actuating device (40) can be driven by a vehicle-mounted drive (46).

2. The safety device as claimed in claim 1,
characterized
in that the cushion element (32, 34) is arranged in or on a door (8) or in or on a body pillar (6) of the vehicle (2).

3. The safety device as claimed in claim 1 or 2,
characterized
in that cushion elements (32, 34) and/or additional foam elements (18, 26, 28, 30) a plurality of which are arranged in series are provided.

4. The safety device as claimed in at least one of the preceding claims,
characterized
in that the cushion elements (32, 34) and/or the foam elements (18, 26, 28, 30) are arranged such

that they can be displaced with respect to one another.

5. The safety device as claimed in at least one of the preceding claims,
characterized
in that the cushion elements (32, 34) and/or the foam elements (18, 26, 28, 30) are at least indirectly guided by linear guides (60).

6. The safety device as claimed in at least one of the preceding claims,
characterized
in that the cushion element (32, 34) can be locked in a deployed position.

7. The safety device as claimed in at least one of the preceding claims,
characterized
in that the vehicle-mounted drive (46) is embodied as an electric motor.

8. The safety device as claimed in at least one of the preceding claims,
characterized
in that the actuating device (40) has a traction means (42) which is embodied as a cable or belt.

9. The safety device as claimed in claim 8,
characterized
in that the traction means (42) is stored, at least in sections, in or on a store (44).

10. The safety device as claimed in claim 9,
characterized
in that the traction means (42) can be wound in or onto the store (44) and in that the store (44) can

be driven by the vehicle-mounted drive (46).

11. The safety device as claimed in at least one of the preceding claims,
characterized
in that an auxiliary drive is provided for moving the cushion element (32, 34) in the direction of the occupant position.

12. The safety device as claimed in claim 11,
characterized
in that the auxiliary drive is formed by a spring store and/or pyrotechnic elements.

13. The safety device as claimed in at least one of the preceding claims,
characterized
in that the vehicle-mounted drive (46) and/or the auxiliary drive are/is coupled to sensors for detecting the vehicle state and/or the state of the vehicle's surroundings.

14. The safety device as claimed in at least one of the preceding claims,
characterized
in that at least one return element (58) is provided for moving the at least one cushion element from a deployed position into the rest position.

15. The safety device as claimed in claim 14,
characterized
in that the return element (58) is formed by at least one tension spring.

16. Method for operating a safety device, in particular as claimed in one of the preceding

claims, in particular for a motor vehicle for reducing the risk of injury to a vehicle occupant in the event of lateral impact accidents, having at least one cushion element (32, 34) which is arranged on the vehicle (2) laterally adjacent to an occupant position and can be moved by an actuating device (40) from a rest position into a deployed position in the direction of the occupant position,

characterized

in that the actuating device (40) is driven by a vehicle-mounted drive (46).